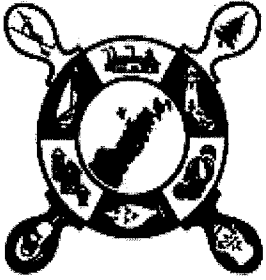


Received 05-31-16



**County of Door  
HIGHWAY DEPARTMENT**

1001 S. Duluth Avenue  
Sturgeon Bay, WI 54235

**John P. Kolodziej, PE**  
Highway Commissioner  
(920) 746-2500  
kolodziej@co.door.wi.us

Ms. Kristin DuFresne,  
Department of Natural Resources  
2984 Shawano Avenue  
Green Bay, WI 54313-6727

May 26, 2016

Subject: Door County Highway Department Salt Storage Facility  
WDNR BRRTS #02-15-554088


Dear Ms. DuFresne,

As requested, enclosed are the water sampling results for the subject site. Because of the vacant state of the two properties in question, we have had difficulty in obtaining samples. The table below identifies the sodium and chloride levels found during our August 2015 sampling and some comparative years.

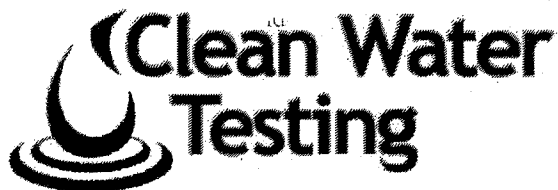
	2009 Chloride Levels mg/l	2013 Chloride Levels mg/l	2015 Chloride Levels mg/l	2009 Sodium Levels mg/l	2013 Sodium Levels mg/l	<del>2013</del> <sup>2015</sup> Sodium Levels mg/l
10392 Northwoods Drive	997	570	Not Available	606	412.2	Not Available
10363 STH 57	393	339	15.5	226	208.4	6.42
10397 STH 57	Not Available	Not Available	461	Not Available	Not Available	487

Should you have any questions, please do not hesitate to contact my office.

Sincerely,

  
John P. Kolodziej, PE  
Highway Commissioner

new -  
well  
(Hwy Shop)



1990 Prospect Ct., Appleton, WI 54914 \* 800-801-7590

DAVE ALBERTS  
EPHRAIM WELLWATER TESTING  
10285 TOWNLINE RD  
SISTER BAY, WI 54234

Home Owner DOOR COUNTY HWY DEPT  
Well ID/Address 10397 HWY 57  
Well City SISTER BAY  
Sample Location OUTSIDE FAUCET  
Lab # 389538  
Collected By/Date WEISGERBE 8/3/2015

Report Date 11-Aug-15

Analyte	Result	Units	LOD	LOQ	Dil	Dig	Date	Run Date	Mthd	Analyst	QC Code
General											
Wet Chemistry											
Chlorides	461	mg/l	42.5	132.5	25		8/10/2015	300.0	RKC		1
(as Cl) Small amounts of chloride are natural; the chloride ion is one of the major inorganic anions in water. However, levels above 200 mg/L are undesirable and often unnatural. They can indicate road salt, septic waste or fertilizer contamination.											
Inorganic											
Metals											
Calcium	3.02	mg/l	0.03	0.11	1		8/6/2015	200.7	NMP		1
(as total Ca) Common constituent of water, derived from dissolved limestone and dolomite. Primary cause of hard water and scaling. The EPA does not regulate Calcium levels in drinking water.											
Sodium	487	mg/l	0.38	1.2	2		8/6/2015	200.7	NMP		1
(as total Na)...Sodium is a common element found in ground water and is an essential nutrient for humans. In large concentration it may affect persons with cardiac difficulties. The EPA has set a health advisory limit for sodium in drinking water for 200 mg/L (parts per million). Elevated levels in well water may indicate agricultural or road salt runoff.											

LOD Limit of Detection

None Detected = Result was less than the LOD

LOQ Limit of Quantitation

**Code Comment**

1 All laboratory QC requirements were met for this sample.

Laboratory Director

Please visit our website at [www.cleanwatertesting.com](http://www.cleanwatertesting.com)

WI DNR Lab Certification # 445126660

EPA ID# WI 00063

WI Dept of Ag Lab ID # 152673-D3

Page 1 of 1

## CHAIN OF CUSTODY

TESTS cont'd

If you need data submitted to the DNR, do not use this form.  
Visit [www.cleanwatertesting.com](http://www.cleanwatertesting.com) for correct lab slip.

COLLECTION DATE <b>Aug. 3, 2015</b>	COLLECTION TIME <b>10:30</b>	AM PM <b>PM</b>	COLLECTED BY <b>R. Wengarten</b>
OWNER NAME <b>DOOR COUNTY Highway Dept.</b>		OWNER TELEPHONE NUMBER <b>920-746-2500</b>	
OWNER ADDRESS <b>1001 N. DULUTH AVE.</b>		WELL ADDRESS/SAMPLE ID <b>10397 HWY 57</b>	
OWNER CITY, STATE, ZIP CODE <b>STURGEON BAY WI 54235</b>		WELL CITY/STATE/ZIP CODE <b>SISTER BAY WI 54234</b>	

## SEND RESULTS TO:

(Note: Results are only sent to the party who paid for them.)

NAME <b>Ephraim Wellwater Testing</b>	TELEPHONE
ADDRESS <b>10285 Town Line Dr</b>	CELL PHONE
<b>Sister Bay, WI 54234</b>	MAIL
CITY <b>(920) 854-4991</b>	
<b>Lab Cert #: 105-299</b>	

## REASON FOR TEST:

☐ Annual Test ☐ Previous Unsafe  
☐ Taste or Odor ☐ Real Estate  
☐ Other Reasons: \_\_\_\_\_  
 WI Unique Well #: \_\_\_\_\_

## SAMPLE LOCATION:

☐ Bathroom Tap ☐ Pressure Tank Tap  
☐ Kitchen Tap ☒ Outside Faucet  
☐ Other: \_\_\_\_\_  
 Relinquished By \_\_\_\_\_ Date/Time \_\_\_\_\_

## LAB USE ONLY

## ENZYMATIC SUBSTRATE METHOD

MMO-MUG CONFIRMED UV  
 Coliform Present ☐ E. Coli Present ☐  
 Coliform Absent ☐ E. Coli Absent ☐

## BACTERIOLOGICAL RESULTS

SAFE (Coliform Absent) ☐  
 UNSAFE (Coliform Present) ☐ AND  
 Fecal/E Coli Pres ☐ Fecal/E Coli Absent ☐  
 CUSTOMER NOTIFIED OF UNSAFE ☐  
☐ INVALID Reason \_\_\_\_\_

## COMPOSITE/GRAB

pH \_\_\_\_\_ Turbidity \_\_\_\_\_  
 Preservative: NONE / HNO<sub>3</sub> / H<sub>2</sub>SO<sub>4</sub>  
 Shipping Condition: Iced ☐ Amb. ☐  
 Arrival Temperature (degrees Celcius): \_\_\_\_\_  
 Sample Filtered in Field: Yes / No

Method of Shipment: \_\_\_\_\_  
 Received By: \_\_\_\_\_  
 Tested By: \_\_\_\_\_  
 Reported By: \_\_\_\_\_

Clean Water Testing, LLC  
 PO Box 2217, 1990 Prospect Ct., Appleton WI 54914  
 Michael A. Hanten, Lab Director

WI Dept of Ag Lab ID # 105 000291

WI DNR Lab ID # 445126660

## INSTRUCTIONS

Step 1. Please complete the Chain of Custody.

Step 2. Select the tests which you would like run on the water sample.

Step 3. Collect water sample (please see the back of this form for instructions).

Step 4. **RETURN SAMPLES ASAP** (within 30 hours).

For more details or further clarification, please see [cleanwatertesting.com](http://cleanwatertesting.com) or call 1-800-801-7590.

## TESTS REQUESTED

## PACKAGES

(Multiple bottles/special bottles may be required)

☐ Basic Annual Testing Package  
☐ Home Safety Package  
☐ Well Water Quality Package  
☐ Comprehensive Water Package  
☐ Complete Water Package  
☐ Mineral Scan  
☒ Volatile Organic Chemical Test (VOC)  
☐ Triazine Screen  
☐ Pesticide Screen

## INDIVIDUAL TESTS

☐ Alkalinity  
☐ Aluminum  
☐ Antimony  
☐ Arsenic  
☐ Barium  
☐ Beryllium  
☐ Boron  
☒ Cadmium  
☒ Calcium  
☒ Chloride

Chromium

Cobalt

Coliform Bacteria\*

Quanti Tray Option (count method)

Conductivity

Copper

Fluoride

Hardness

Iron

Iron Bacteria

Lead

Magnesium

Manganese

Mercury (total)

Molybdenum

Nickel

Nitrate

Nitrite

pH

Phosphate

Phosphorus (Total)

Potassium

Selenium

Silicon

Silver

☒ Sodium

Strontium

Sulfate

Sulfur Bacteria

Tannins

Thallium

Total Dissolved Solids

Total Suspended Solids

Turbidity

Zinc

## OTHER

15040

\*Coliform Bacteria reports as "PRESENT" or "ABSENT."  
 Quanti Tray reports count of coliform bacteria.



1990 Prospect Ct., Appleton, WI 54914 \* 800-801-7590

DAVE ALBERTS  
EPHRAIM WELLWATER TESTING  
10285 TOWNLINE RD  
SISTER BAY, WI 54234

Home Owner DOOR CTY HWY DEPT  
Well ID/Address 10363 HWY 57  
Well City SISTER BAY  
Sample Location  
Lab # 389540  
Collected By/Date WEISGERBE 8/3/2015

Report Date 11-Aug-15

Analyte	Result	Units	LOD	LOQ	Dil	Dig Date	Run Date	Mthd	Analyst	QC Code
General										
Wet Chemistry										
Chlorides	15.5	mg/l	1.7	5.3	1		8/10/2015	300.0	RKC	1
(as Cl) Small amounts of chloride are natural; the chloride ion is one of the major inorganic anions in water. However, levels above 200 mg/L are undesirable and often unnatural. They can indicate road salt, septic waste or fertilizer contamination.										
Inorganic										
Metals										
Calcium	80	mg/l	0.03	0.11	1		8/6/2015	200.7	NMP	1
(as total Ca) Common constituent of water, derived from dissolved limestone and dolomite. Primary cause of hard water and scaling. The EPA does not regulate Calcium levels in drinking water.										
Sodium	6.42	mg/l	0.19	0.6	1		8/6/2015	200.7	NMP	1
(as total Na)...Sodium is a common element found in ground water and is an essential nutrient for humans. In large concentration it may affect persons with cardiac difficulties. The EPA has set a health advisory limit for sodium in drinking water for 200 mg/L (parts per million). Elevated levels in well water may indicate agricultural or road salt runoff.										

LOD Limit of Detection

None Detected = Result was less than the LOD

LOQ Limit of Quantitation

Code

Comment

1

All laboratory QC requirements were met for this sample.

Laboratory Director

Please visit our website at [www.cleanwatertesting.com](http://www.cleanwatertesting.com)

WI DNR Lab Certification # 445126660

EPA ID# WI 00063

WI Dept of Ag Lab ID # 152673-D3

Page 1 of 1



## CHAIN OF CUSTODY

TESTS cont'd

If you need data submitted to the DNR, do not use this form.  
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COLLECTION DATE <b>AUG 3, 2015</b>	COLLECTION TIME <b>10:00</b>	COLLECTED BY <b>R. WEISGERBER</b>
OWNER NAME <b>DOOR COUNTY Highway Dept.</b>	OWNER TELEPHONE NUMBER <b>920-746-2500</b>	
OWNER ADDRESS <b>1001 S. DULUTH AVE</b>	WELL ADDRESS/SAMPLE ID <b>10363 HWY 57</b>	
OWNER CITY, STATE, ZIP CODE <b>STURGEON BAY, WI, 54235</b>	WELL CITY/STATE/ZIP CODE <b>SISTER BAY WI 54234</b>	

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ADDRESS <b>10285 Town Line Dr Sister Bay, WI 54234 (920) 854-4991</b>	CELL PHONE
CITY <b>Lab Cert #: 105-299</b>	E-MAIL

## REASON FOR TEST:

☐ Annual Test ☐ Previous Unsafe  
☐ Taste or Odor ☐ Real Estate  
☐ Other Reasons: \_\_\_\_\_

## SAMPLE LOCATION:

☐ Bathroom Tap ☐ Pressure Tank Tap  
☐ Kitchen Tap ☐ Outside Faucet  
☐ Other: \_\_\_\_\_

WI Unique Well #: \_\_\_\_\_ Relinquished By \_\_\_\_\_ Date/Time \_\_\_\_\_

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MMO-MUG CONFIRMED UV  
 Coliform Present ☐ E. Coli Present ☐  
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## BACTERIOLOGICAL RESULTS

SAFE (Coliform Absent) ☐  
 UNSAFE (Coliform Present) ☐ AND  
 Fecal/E Coli Pres ☐ Fecal/E Coli Absent ☐  
 CUSTOMER NOTIFIED OF UNSAFE  
☐ INVALID Reason \_\_\_\_\_

## COMPOSITE/GRAB

pH \_\_\_\_\_ Turbidity \_\_\_\_\_  
 Preservative: NONE / HNO<sub>3</sub> / H<sub>2</sub>SO<sub>4</sub>  
 Shipping Condition: Iced ☐ Amb. ☐  
 Arrival Temperature (degrees Celcius): \_\_\_\_\_  
 Sample Filtered in Field: Yes / No

Method of Shipment: \_\_\_\_\_  
 Received By: \_\_\_\_\_  
 Tested By: \_\_\_\_\_  
 Reported By: \_\_\_\_\_

Clean Water Testing, LLC  
 PO Box 2217, 1990 Prospect Ct., Appleton WI 54914  
 Michael A. Hanten, Lab Director

WI Dept of Ag Lab ID # 105 000291

WI DNR Lab ID # 445126660

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☐ Antimony  
☐ Arsenic  
☐ Barium  
☐ Beryllium  
☐ Boron  
☐ Cadmium  
☒ Calcium  
☒ Chloride

Chromium  
 Cobalt  
 Coliform Bacteria\*  
 Quanti Tray Option (count method)  
 Conductivity  
 Copper  
 Fluoride  
 Hardness  
 Iron  
 Iron Bacteria  
 Lead  
 Magnesium  
 Manganese  
 Mercury (total)  
 Molybdenum  
 Nickel  
 Nitrate  
 Nitrite  
 pH  
 Phosphate  
 Phosphorus (Total)  
 Potassium  
 Selenium  
 Silicon  
 Silver  
☒ Sodium  
 Strontium  
 Sulfate  
 Sulfur Bacteria  
 Tannins  
 Thallium  
 Total Dissolved Solids  
 Total Suspended Solids  
 Turbidity  
 Zinc

## OTHER

15041

\*Coliform Bacteria reports as "PRESENT" or "ABSENT."  
 Quanti Tray reports count of coliform bacteria.